RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/549,302
Source:	Pylo
Date Processed by STIC:	10/28/05

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 10/28/2005
PATENT APPLICATION: US/10/549,302 TIME: 12:15:35

Input Set: A:\AM100485 (2-5-04).ST25.txt
Output Set: N:\CRF4\10282005\J549302.raw

```
3 <110> APPLICANT: Wyeth Holdings Corporation
      5 <120> TITLE OF INVENTION: MUTANT CHOLERA HOLOTOXIN AS AN ADJUVANT AND AN ANTIGEN
CARRIER
              PROTEIN
      6
      8 <130> FILE REFERENCE: AM100485
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/549,302
C--> 10 <141> CURRENT FILING DATE: 2005-09-15
     10 <160> NUMBER OF SEQ ID NOS: 8
     12 <170> SOFTWARE: PatentIn version 3.2
     14 <210> SEQ ID NO: 1
     15 <211> LENGTH: 720
     16 <212> TYPE: DNA
     17 <213> ORGANISM: Vibrio cholerae
     19 <400> SEQUENCE: 1
     20 aatgatgata agttatatog ggcagattot agacotootg atgaaataaa gcagtcaggt
                                                                               60
     22 ggtcttatgc caagaggaca gagtcactac tttgaccgag gtactcaaat gaatatcaac
                                                                              120
     24 ctttatgatc atgcaagagg aactcagacg ggatttgtta ggcacgatga tggatatgtt
                                                                              180
     26 tocacctcaa ttagtttgag aagtgcccac ttagtgggtc aaactatatt gtctggtcat
                                                                              240
     28 tetaettatt atatatatgt tatageeact geacceaaca tgtttaaegt taatgatgta
                                                                              300
     30 ttaggggcat acagtcctca tccagatgaa caagaagttt ctgctttagg tgggattcca
                                                                              360
     32 tactcccaaa tatatggatg gtatcgagtt cattttgggg tgcttgatga acaattacat
                                                                              420
     34 cgtaataggg gctacagaga tagatattac agtaacttag atattgctcc agcagcagat
                                                                              480
     36 ggttatggat tggcaggttt ccctccggag catagagctt ggagggaaga gccgtggatt
                                                                              540
     38 catcatgcac cgccgggttg tgggaatgct ccaagatcat cgatgagtaa tacttgcgat
                                                                              600
     40 gaaaaaaccc aaagtctagg tgtaaaattc cttgacgaat accaatctaa agttaaaaga
                                                                              660
     42 caaatatttt caggctatca atctgatatt gatacacata atagaattaa ggatgaatta
                                                                              720
     45 <210> SEQ ID NO: 2
     46 <211> LENGTH: 240
     47 <212> TYPE: PRT
     48 <213> ORGANISM: Vibrio cholerae
     50 <400> SEQUENCE: 2
     52 Asn Asp Asp Lys Leu Tyr Arg Ala Asp Ser Arg Pro Pro Asp Glu Ile
                                             10
     56 Lys Gln Ser Gly Gly Leu Met Pro Arg Gly Gln Ser Glu Tyr Phe Asp
                    20
                                        25
     60 Arg Gly Thr Gln Met Asn Ile Asn Leu Tyr Asp His Ala Arg Gly Thr
                35
                                    40
     64 Gln Thr Gly Phe Val Arg His Asp Asp Gly Tyr Val Ser Thr Ser Ile
     65
            50
                                55
                                                     60
     68 Ser Leu Arg Ser Ala His Leu Val Gly Gln Thr Ile Leu Ser Gly His
                            70
     72 Ser Thr Tyr Tyr Ile Tyr Val Ile Ala Thr Ala Pro Asn Met Phe Asn
     73
```

76 Val Asn Asp Val Leu Gly Ala Tyr Ser Pro His Pro Asp Glu Gln Glu

RAW SEQUENCE LISTING DATE: 10/28/2005
PATENT APPLICATION: US/10/549,302 TIME: 12:15:35

Input Set : A:\AM100485 (2-5-04).ST25.txt
Output Set: N:\CRF4\10282005\J549302.raw

```
77
                    100
                                        105
     80 Val Ser Ala Leu Gly Gly Ile Pro Tyr Ser Gln Ile Tyr Gly Trp Tyr
                                    120
     84 Arg Val His Phe Gly Val Leu Asp Glu Gln Leu His Arg Asn Arg Gly
           130
                                135
                                                    140
     88 Tyr Arg Asp Arg Tyr Tyr Ser Asn Leu Asp Ile Ala Pro Ala Ala Asp
                            150
     89 145
                                                155
     92 Gly Tyr Gly Leu Ala Gly Phe Pro Pro Glu His Arg Ala Trp Arg Glu
                                            170
     96 Glu Pro Trp Ile His His Ala Pro Pro Gly Cys Gly Asn Ala Pro Arg
     97
                    180
                                        185
     100 Ser Ser Met Ser Asn Thr Cys Asp Glu Lys Thr Gln Ser Leu Gly Val
     101
                 195
                                     200
     104 Lys Phe Leu Asp Glu Tyr Gln Ser Lys Val Lys Arg Gln Ile Phe Ser
     105 210
                                 215
     108 Gly Tyr Gln Ser Asp Ile Asp Thr His Asn Arg Ile Lys Asp Glu Leu
     109 225
                             230
                                                 235
     112 <210> SEQ ID NO: 3
     113 <211> LENGTH: 20
     114 <212> TYPE: DNA
     115 <213> ORGANISM: Artificial
     117 <220> FEATURE:
     118 <223> OTHER INFORMATION: Synthetic oligo
     120 <400> SEQUENCE: 3
     121 aagttatata aggcagattc
                                                                                20
     124 <210> SEQ ID NO: 4
     125 <211> LENGTH: 18
     126 <212> TYPE: DNA
     127 <213> ORGANISM: Artificial
     129 <220> FEATURE:
     130 <223> OTHER INFORMATION: Synthetic nucleotide sequence
     132 <400> SEQUENCE: 4
                                                                                18
     133 cagattctaa acctcctg
     136 <210> SEQ ID NO: 5
     137 <211> LENGTH: 22
     138 <212> TYPE: DNA
     139 <213> ORGANISM: Artificial
     141 <220> FEATURE:
     142 <223> OTHER INFORMATION: synthetic oligo
     145 <220> FEATURE:
     146 <221> NAME/KEY: misc feature
     147 <222> LOCATION: (9)..(9)
     148 <223> OTHER INFORMATION: nucleotide variation
     150 <400> SEQUENCE: 5
W--> 151 gacagagtna gtactttgac cg
                                                                                22
     154 <210> SEQ ID NO: 6
     155 <211> LENGTH: 22
     156 <212> TYPE: DNA
     157 <213> ORGANISM: Artificial
```

RAW SEQUENCE LISTING DATE: 10/28/2005 PATENT APPLICATION: US/10/549,302 TIME: 12:15:35

Input Set : A:\AM100485 (2-5-04).ST25.txt
Output Set: N:\CRF4\10282005\J549302.raw

```
159 <220> FEATURE:
     160 <223> OTHER INFORMATION: synthetic oligo
    163 <220> FEATURE:
     164 <221> NAME/KEY: misc feature
     165 <222> LOCATION: (8)..(8)
    166 <223> OTHER INFORMATION: nucleotide variation
    168 <220> FEATURE:
    169 <221> NAME/KEY: misc_feature
     170 <222> LOCATION: (14)..(14)
     171 <223> OTHER INFORMATION: nucleotide variation
     173 <400> SEQUENCE: 6
                                                                                22
W--> 174 cagatganca agangtttct gc
     177 <210> SEQ ID NO: 7
     178 <211> LENGTH: 22
     179 <212> TYPE: DNA
     180 <213> ORGANISM: Artificial
     182 <220> FEATURE:
     183 <223> OTHER INFORMATION: synthetic oligo
     186 <220> FEATURE:
     187 <221> NAME/KEY: misc feature
     188 <222> LOCATION: (8)..(8)
     189 <223> OTHER INFORMATION: nucleotide variation
     191 <220> FEATURE:
     192 <221> NAME/KEY: misc feature
     193 <222> LOCATION: (14)..(14)
     194 <223> OTHER INFORMATION: nucleotide variation
     196 <400> SEQUENCE: 7
                                                                                22
W--> 197 cagatganca agangtttct gc
     200 <210> SEQ ID NO: 8
     201 <211> LENGTH: 7
     202 <212> TYPE: PRT
    203 <213> ORGANISM: Homo sapiens
     205 <400> SEQUENCE: 8
    207 Asp Ala Glu Phe Arg His Asp
    208 1
```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/549,302

DATE: 10/28/2005 TIME: 12:15:36

Input Set : A:\AM100485 (2-5-04).ST25.txt
Output Set: N:\CRF4\10282005\J549302.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 9 Seq#:6; N Pos. 8,14 Seq#:7; N Pos. 8,44

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7

VERIFICATION SUMMARY

DATE: 10/28/2005

PATENT APPLICATION: US/10/549,302

TIME: 12:15:36

Input Set : A:\AM100485 (2-5-04).ST25.txt
Output Set: N:\CRF4\10282005\J549302.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0

L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0